

Tennessee Valley Authority
Division of Water Control Planning

II

MAXIMUM FLOOD OF REASONABLE REGIONAL EXPECTANCY

The preceding section of this report has presented an account of the floods that have occurred in the Cherokee vicinity during the past 100 or more years. Along with such historical floods, it is important to consider the magnitude of floods that may occur on the Tuckasegee and Oconaluftee Rivers and Soco Creek. It is with these maximum floods of reasonable expectancy in the Cherokee vicinity that this section of this report is chiefly concerned. The possibility of floods of this type, even though remote, should be recognized in studies of local flood problems. For these studies, both the magnitude and elevations of the maximum floods of reasonable regional expectancy in the Cherokee vicinity as given in this report are satisfactory for consideration in zoning and similar local problems where no definite factors of safety need be applied. For the design of protective works the failure of which would be disastrous, floods of greater magnitude might be required.

Determination of Peak Discharge and Elevations

Determinations have been made of the peak flood discharges